



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : MIXFILL 80 DURCISSEUR SLOW  
Product code : 2333.  
HARDENER

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Hardener  
Uses advised against : data not available

#### 1.3. Details of the supplier of the safety data sheet

Registered company name : Suter Kunststoffe AG  
Address : Aeßligenstrasse 3, CH-3312 Fraubrunnen  
Telephone : +41 (0)31 763 60 60 Fax : +41 (0)31 763 60 61  
e-mail: info@swiss-composite.ch  
Site web : <https://www.swiss-composite.ch>

#### 1.4. Emergency telephone number : .

Association/Organisation : ToxInfo Suisse, Tel. 145, International +41 (0)44 251 51 51

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).  
Skin corrosion, Category 1B (Skin Corr. 1B, H314).  
Serious eye damage, Category 1 (Eye Dam. 1, H318).  
Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).  
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

#### 2.2. Label elements

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS07



GHS08

Signal Word :

DANGER

Product identifiers :

|              |                                                                          |
|--------------|--------------------------------------------------------------------------|
| EC 603-894-6 | COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED                  |
| EC 220-666-8 | 3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE                            |
| EC 216-032-5 | META XYLENE DIAMINE                                                      |
| EC 500-101-4 | PHENOL, 4,4'- (1-METHYLETHYLIDENE) BIS-, POLYMER WITH                    |
|              | 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL) OXIRANE |
| EC 224-518-3 | 4-MORPHOLINECARBALDEHYDE                                                 |
| EC 202-013-9 | 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL                                    |

CAS 1293368-66-7      FORMALDEHYDE, POLYMERS WITH DIETHYLENETRIAMINE AND STYRENATED PHENOL  
612-059-00-5      3,6-DIAZAOCTANETHYLENEDIAMIN  
EC 262-975-0      PHENOL, STYRENATED

Hazard statements :  
H302      Harmful if swallowed.  
H314      Causes severe skin burns and eye damage.  
H317      May cause an allergic skin reaction.  
H373      May cause damage to organs through prolonged or repeated exposure (if swallowed).  
H412      Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :  
P264      Wash hands thoroughly after handling.  
P280      Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :  
P303 + P361 + P353      IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305 + P351 + P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310      Immediately call a POISON CENTER/doctor/...

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>  
The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

#### Composition :

| Identification                                                                                                                               | (EC) 1272/2008                                                                                                                                              | Note | %                   |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------|
| CAS: 100-51-6<br>EC: 202-859-9<br>REACH: 01-2119492630-38-XXXX<br><br>BENZYL ALCOHOL                                                         | GHS07<br>Wng<br>Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Acute Tox. 4, H332                                                                              | [1]  | 10 $\leq$ x % < 25  |
| CAS: 135108-88-2<br>EC: 603-894-6<br>REACH: 05-2114471842-44-XXXX<br><br>COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED             | GHS07, GHS05, GHS08<br>Dgr<br>Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Skin Sens. 1, H317<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412                 |      | 10 $\leq$ x % < 25  |
| CAS: 14807-96-6<br>EC: 238-877-9<br><br>TALC                                                                                                 |                                                                                                                                                             | [1]  | 10 $\leq$ x % < 25  |
| CAS: 39423-51-3<br>EC: 500-105-6<br>REACH: 01-2119556886-20-XXXX<br><br>PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA | GHS07, GHS05, GHS09<br>Dgr<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411                                       |      | 2.5 $\leq$ x % < 10 |
| CAS: 2855-13-2<br>EC: 220-666-8<br>REACH: 01-2119514687-32-XXXX<br><br>3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE                         | GHS07, GHS05<br>Dgr<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |      | 2.5 $\leq$ x % < 10 |
| CAS: 1477-55-0                                                                                                                               | GHS07, GHS05                                                                                                                                                | [1]  | 2.5 $\leq$ x % < 10 |

|                                                                                                                                                                                                                        |                                                                                                                   |     |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----|----------------|
| EC: 216-032-5<br>REACH: 01-2119480150-50-XXXX<br><br>META XYLENE DIAMINE                                                                                                                                               | Dgr<br>Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Skin Sens. 1B, H317<br>Eye Dam. 1, H318<br>Acute Tox. 4, H332 |     |                |
| CAS: 13463-67-7<br>EC: 236-675-5<br>REACH: 01-2119489379-17-XXXX<br><br>TITANIUM DIOXYDE                                                                                                                               |                                                                                                                   | [1] | 1 <= x % < 2.5 |
| CAS: 38294-64-3<br>EC: 500-101-4<br>REACH: 01-2119965165-33-XXXX<br><br>PHENOL, 4,4'-<br>(1-METHYLETHYLIDENE) BIS-,<br>POLYMER WITH<br>5-AMINO-1,3,3-TRIMETHYLCYCLOHEX<br>ANEMETHANAMINE AND<br>(CHLOROMETHYL) OXIRANE | GHS05, GHS07<br>Dgr<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                       |     | 1 <= x % < 2.5 |
| CAS: 4394-85-8<br>EC: 224-518-3<br>REACH: 01-2119987993-12-XXXX<br><br>4-MORPHOLINECARBALDEHYDE                                                                                                                        | GHS07<br>Wng<br>Skin Sens. 1, H317                                                                                |     | 1 <= x % < 2.5 |
| CAS: 90-72-2<br>EC: 202-013-9<br>REACH: 01-2119560597-27-XXXX<br><br>2,4,6-TRIS(DIMETHYLAMINOMETHYL)<br>PHENOL                                                                                                         | GHS05, GHS07<br>Dgr<br>Skin Corr. 1C, H314<br>Skin Sens. 1B, H317<br>Eye Dam. 1, H318                             |     | 1 <= x % < 2.5 |
| CAS: 7631-86-9<br>EC: 231-545-4<br>REACH: 01-2119379499-16-XXXX<br><br>SILICON DIOXIDE                                                                                                                                 |                                                                                                                   | [1] | 1 <= x % < 2.5 |
| CAS: 1293368-66-7<br><br>FORMALDEHYDE, POLYMERS WITH<br>DIETHYLENTRIAMINE AND<br>STYRENATED PHENOL                                                                                                                     | GHS05, GHS07<br>Dgr<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318                              |     | 1 <= x % < 2.5 |
| INDEX: 612-059-00-5<br>CAS: 112-24-3<br>EC: 203-950-6<br>REACH: 01-2119487919-13-XXXX<br><br>3,6-DIAZAOCTANETHYLENEDIAMIN                                                                                              | GHS05, GHS07<br>Dgr<br>Acute Tox. 4, H312<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |     | 1 <= x % < 2.5 |
| CAS: 69-72-7<br>EC: 200-712-3<br>REACH: 01-2119486984-17-XXXX<br><br>SALICYLIC ACID                                                                                                                                    | GHS07, GHS05<br>Dgr<br>Acute Tox. 4, H302<br>Eye Dam. 1, H318                                                     |     | 1 <= x % < 2.5 |
| CAS: 2579-20-6<br>EC: 219-941-5<br>REACH: 01-2119543741-41-XXXX<br><br>1,3-CYCLOHEXANEDIMETHANAMINE                                                                                                                    | GHS07, GHS05<br>Dgr<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1A, H314<br>Aquatic Chronic 3, H412 |     | 1 <= x % < 2.5 |
| CAS: 61788-44-1                                                                                                                                                                                                        | GHS07, GHS09                                                                                                      |     | 0 <= x % < 1   |

|                              |                         |
|------------------------------|-------------------------|
| EC: 262-975-0                | Wng                     |
| REACH: 01-2119980970-27-XXXX | Skin Irrit. 2, H315     |
|                              | Skin Sens. 1A, H317     |
| PHENOL, STYRENATED           | Aquatic Chronic 2, H411 |

(Full text of H-phrases: see section 16)

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures****In the event of exposure by inhalation :**

If inhaled, move the patient to fresh air and keep warm and rest.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed****Information for the doctor :**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.

Contact a specialist for treatment poisoning if large quantities have been ingested or inhaled.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media****Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode.

Wear conform with the European standard EN 469.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid exposure - obtain special instructions before use.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep away from food and drink, including those for animals.

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources.

Keep container tightly closed in a dry place.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

Scope advised: coating

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

| CAS        | TWA :         | STEL : | Ceiling : | Definition : | Criteria : |
|------------|---------------|--------|-----------|--------------|------------|
| 14807-96-6 | 2 (E,R) mg/m3 |        |           | A4           |            |
| 1477-55-0  |               |        | 0,1 mg/m3 | Skin         |            |
| 13463-67-7 | 10 mg/m3      |        |           | A4           |            |

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

| CAS       | VME : | VME :                         | Excess | Notes |
|-----------|-------|-------------------------------|--------|-------|
| 100-51-6  |       | 5 ppm<br>22 mg/m <sup>3</sup> |        | 2(I)  |
| 7631-86-9 |       | 4 E mg/m <sup>3</sup>         |        |       |

- France (INRS - ED984 :2016) :

| CAS        | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|------------|-----------|-------------|-----------|-------------|---------|----------|
| 1477-55-0  | -         | -           | -         | 0.1         | -       | -        |
| 13463-67-7 | -         | 10          | -         | -           | -       | -        |

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

| CAS        | TWA :                        | STEL :                       | Ceiling : | Definition : | Criteria : |  |
|------------|------------------------------|------------------------------|-----------|--------------|------------|--|
| 14807-96-6 | - ppm<br>1 mg/m <sup>3</sup> | - ppm<br>- mg/m <sup>3</sup> |           |              |            |  |
| 13463-67-7 | - ppm<br>4 mg/m <sup>3</sup> | - ppm<br>- mg/m <sup>3</sup> |           |              |            |  |

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Inhalation.

Long term local effects.

0.00947 mg de substance/m<sup>3</sup>

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Long term systemic effects.

0.2 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

0.00031 mg de substance/l

4-MORPHOLINECARBALDEHYDE (CAS: 4394-85-8)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Long term local effects.

0.293 mg de substance/cm<sup>2</sup>

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

98 mg de substance/m<sup>3</sup>**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Consumers.**

Ingestion.

Long term systemic effects.

8 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term systemic effects.

8 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

29 mg de substance/m<sup>3</sup>PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)  
(CAS: 38294-64-3)**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Long term systemic effects.

0.14 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

0.98 mg de substance/m<sup>3</sup>**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Man exposed via the environment.**

Ingestion.

Long term systemic effects.

0.05 mg/kg de poids corporel/jour

Exposure method:

Dermal contact.

Potential health effects:  
DNEL : Long term systemic effects.  
0.05 mg/kg de poids corporel/jour

Exposure method:  
Potential health effects:  
DNEL : Inhalation.  
Long term systemic effects.  
0.175 mg de substance/m3

## TITANIUM DIOXYDE (CAS: 13463-67-7)

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Workers.**  
Inhalation.  
Long term local effects.  
10 mg de substance/m3

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Consumers.**  
Ingestion.  
Long term systemic effects.  
700 mg/kg de poids corporel/jour

## META XYLENE DIAMINE (CAS: 1477-55-0)

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Workers.**  
Dermal contact.  
Long term systemic effects.  
0.33 mg/kg de poids corporel/jour

Exposure method:  
Potential health effects:  
DNEL : Inhalation.  
Long term systemic effects.  
1.2 mg de substance/m3

Exposure method:  
Potential health effects:  
DNEL : Inhalation.  
Long term local effects.  
0.2 mg de substance/m3

## 3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Workers.**  
Inhalation.  
Short term systemic effects.  
20.1 mg de substance/m3

Exposure method:  
Potential health effects:  
DNEL : Inhalation.  
Short term local effects.  
20.1 mg de substance/m3

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Man exposed via the environment.**  
Ingestion.  
Long term systemic effects.  
0.526 mg/kg de poids corporel/jour

## PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Workers.**  
Dermal contact.  
Long term systemic effects.  
1.6 mg/kg de poids corporel/jour

Exposure method:  
Potential health effects:  
DNEL : Inhalation.  
Long term systemic effects.  
14 mg de substance/m3

**Final use:**  
Exposure method:  
Potential health effects:  
DNEL : **Consumers.**  
Dermal contact.  
Long term systemic effects.  
0.8 mg/kg de poids corporel/jour

Exposure method:  
Potential health effects:  
Inhalation.  
Long term systemic effects.

DNEL : 3.48 mg de substance/m3

**BENZYL ALCOHOL (CAS: 100-51-6)****Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Short term systemic effects.

40 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term systemic effects.

8 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Short term systemic effects.

110 mg de substance/m3

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

22 mg de substance/m3

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Consumers.**

Ingestion.

Long term systemic effects.

4 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Ingestion.

Short term systemic effects.

20 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term systemic effects.

4 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Short term systemic effects.

20 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

5.4 mg de substance/m3

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Short term systemic effects.

27 mg de substance/m3

**Predicted no effect concentration (PNEC):****1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)**

Environmental compartment:

PNEC :

Fresh water.

0.033 mg/l

Environmental compartment:

PNEC :

Sea water.

0.003 mg/l

Environmental compartment:

PNEC :

Waste water treatment plant.

10 mg/l

**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)**

Environmental compartment:

PNEC :

Fresh water.

0.084 mg/l

Environmental compartment:

PNEC :

Sea water.

0.0084 mg/l

## 4-MORPHOLINECARBALDEHYDE (CAS: 4394-85-8)

Environmental compartment: Fresh water.

PNEC : 0.5 mg/l

Environmental compartment: Sea water.

PNEC : 0.05 mg/l

Environmental compartment: Intermittent waste water.

PNEC : 5 mg/l

Environmental compartment: Fresh water sediment.

PNEC : 1.85 mg/kg

Environmental compartment: Marine sediment.

PNEC : 0.0764 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC : 2000 mg/l

PHENOL, 4,4'- (1-METHYLETHYLIDENE) BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)  
(CAS: 38294-64-3)

Environmental compartment: Soil.

PNEC : 2.79 µg/kg

Environmental compartment: Fresh water.

PNEC : 0.0111 mg/l

Environmental compartment: Sea water.

PNEC : 1.11 µg/l

Environmental compartment: Intermittent waste water.

PNEC : 0.111 mg/l

Environmental compartment: Fresh water sediment.

PNEC : 0.0456 mg/kg

Environmental compartment: Marine sediment.

PNEC : 4.56 µg/kg

Environmental compartment: Waste water treatment plant.

PNEC : 10 mg/l

## TITANIUM DIOXYDE (CAS: 13463-67-7)

Environmental compartment: Soil.

PNEC : 100 mg/kg

Environmental compartment: Fresh water.

PNEC : 0.184 mg/l

Environmental compartment: Sea water.

PNEC : 0.0184 mg/l

Environmental compartment: Intermittent waste water.

PNEC : 0.61 mg/l

Environmental compartment: Fresh water sediment.

PNEC : 1000 mg/kg

Environmental compartment: Marine sediment.

PNEC : 100 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC : 100 mg/l

## META XYLENE DIAMINE (CAS: 1477-55-0)

Environmental compartment: Soil.  
PNEC : 0.045 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.094 mg/l

Environmental compartment: Sea water.  
PNEC : 0.009 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.152 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.43 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.043 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 10 mg/l

## 3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Environmental compartment: Soil.  
PNEC : 1.121 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.06 mg/l

Environmental compartment: Sea water.  
PNEC : 0.006 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.23 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 5.784 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.578 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 3.18 mg/l

## PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Environmental compartment: Soil.  
PNEC : 0.002 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.0044 mg/l

Environmental compartment: Sea water.  
PNEC : 0.00044 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.044 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.02 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.002 mg/kg

Environmental compartment: Waste water treatment plant.

|                                |                              |
|--------------------------------|------------------------------|
| PNEC :                         | 10 mg/l                      |
| BENZYL ALCOHOL (CAS: 100-51-6) |                              |
| Environmental compartment:     | Soil.                        |
| PNEC :                         | 0.456 mg/kg                  |
| Environmental compartment:     | Fresh water.                 |
| PNEC :                         | 1 mg/l                       |
| Environmental compartment:     | Sea water.                   |
| PNEC :                         | 0.1 mg/l                     |
| Environmental compartment:     | Intermittent waste water.    |
| PNEC :                         | 2.3 mg/l                     |
| Environmental compartment:     | Fresh water sediment.        |
| PNEC :                         | 5.27 mg/kg                   |
| Environmental compartment:     | Marine sediment.             |
| PNEC :                         | 0.527 mg/kg                  |
| Environmental compartment:     | Waste water treatment plant. |
| PNEC :                         | 39 mg/l                      |

## 8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Mask with filter type A, B, E, K, P

Attention! If the protection group is insufficient.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### General information :

|                  |        |
|------------------|--------|
| Physical state : | Paste. |
| Color:           | white  |

#### Important health, safety and environmental information

|                                           |                    |
|-------------------------------------------|--------------------|
| pH :                                      | Not relevant.      |
| Boiling point/boiling range :             | Not relevant.      |
| Flash Point Interval :                    | FP > 100°C.        |
| Vapour pressure (50°C) :                  | Not relevant.      |
| Density :                                 | 0.48 ± 0.1 @ 20 °C |
| Water solubility :                        | Soluble.           |
| Melting point/melting range :             | Not relevant.      |
| Self-ignition temperature :               | Not relevant.      |
| Decomposition point/decomposition range : | Not relevant.      |

### 9.2. Other information

No data available.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Keep away from :

- strong oxidising agents

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Harmful if swallowed.

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May cause an allergic reaction by skin contact.

May cause severe damage to organs in the event of repeated or prolonged exposure.

#### 11.1.1. Substances

##### Acute toxicity :

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Dermal route : LD<sub>50</sub> > 2000 mg/kg

Species : Rabbit

PHENOL, STYRENATED (CAS: 61788-44-1)

Oral route : LD50 > 2000 mg/kg  
Species : Rat  
OCDE Ligne directrice 423 (Toxicité aiguë par voie orale - Méthode de la classe de toxicité aiguë)

Dermal route : LD50 > 2000 mg/kg  
Species : Rat  
OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

Inhalation route (n/a) : LC50 = 4.9 mg/l  
OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Oral route : LD50 = 880 mg/kg  
Species : Rat  
OCDE Ligne directrice 423 (Toxicité aiguë par voie orale - Méthode de la classe de toxicité aiguë)

Dermal route : LD50 = 1700 mg/kg  
Species : Rat

SALICYLIC ACID (CAS: 69-72-7)

Oral route : LD50 = 891 mg/kg  
Species : Rat  
OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)

Dermal route : LD50 > 2000 mg/kg  
Species : Rat

Inhalation route (n/a) : LC50 > 0.9 mg/l  
Species : Rat

SILICON DIOXIDE (CAS: 7631-86-9)

Oral route : LD50 > 5110 mg/kg  
Species : Rat  
OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)

Dermal route : LD50 > 5000 mg/kg  
Species : Rabbit

Inhalation route (n/a) : LC50 = 0.139 mg/l  
Species : Rat

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Oral route : LD50 = 2169 mg/kg  
Species : Rat

Dermal route : LD50 > 1 mg/kg  
Species : Rat

4-MORPHOLINECARBALDEHYDE (CAS: 4394-85-8)

Oral route : LD50 > 7360 mg/kg  
Species : Rat

Dermal route : LD50 > 18400 mg/kg  
OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

META XYLENE DIAMINE (CAS: 1477-55-0)

Oral route : LD50 = 1180 mg/kg  
Species : Mouse  
OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)

Dermal route : LD50 > 3100 mg/kg

Species : Rat

Inhalation route (n/a) :

LC50 = 1.34 mg/l

Species : Rat

OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)

Duration of exposure : 4 h

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Oral route :

LD50 = 1030 mg/kg

Species : Rat

Dermal route :

LD50 > 2000 mg/kg

Species : Rat

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

Inhalation route (n/a) :

LC50 > 5.01 mg/l

Species : Rat

OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Oral route :

LD50 = 550 mg/kg

Species : Rat

OCDE Ligne directrice 425 (Toxicité aiguë par voie orale - Méthode de l'ajustement des doses)

Dermal route :

LD50 > 1000 mg/kg

Species : Rat

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

BENZYL ALCOHOL (CAS: 100-51-6)

Oral route :

LD50 = 1620 mg/kg

Species : Rat

Dermal route :

LD50 = 2000 mg/kg

Species : Rat

Inhalation route (n/a) :

LC50 = 4.178 mg/l

Species : Rat

OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)

Duration of exposure : 4 h

**Skin corrosion/skin irritation :**

PHENOL, STYRENATED (CAS: 61788-44-1)

Effect observed : Irritation globale

Species : Rabbit

OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

META XYLENE DIAMINE (CAS: 1477-55-0)

Corrosivity :

Causes severe skin burns.

Species : Rat

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Species : Rabbit

OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

Species : Rabbit

OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

**Serious damage to eyes/eye irritation :**

PHENOL, STYRENATED (CAS: 61788-44-1)

Species : Rabbit

**Respiratory or skin sensitisation :**

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Species : Rabbit

OCDE Ligne directrice 406 (Sensibilisation de la peau)

BENZYL ALCOHOL (CAS: 100-51-6)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.

Species : Guinea pig

OCDE Ligne directrice 406 (Sensibilisation de la peau)

**Germ cell mutagenicity :**

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Ames test (in vitro) :

Negative.

SALICYLIC ACID (CAS: 69-72-7)

Ames test (in vitro) :

Negative.

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Mutagenesis (in vivo) :

Negative.

OCDE Ligne directrice 474 (Le test de micronoyaux sur les érythrocytes de mammifères)

OCDE Ligne directrice 471 (Essai de mutation réverse sur des bactéries)

Ames test (in vitro) :

Negative.

With or without metabolic activation.

PHENOL, STYRENATED (CAS: 61788-44-1)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.

OCDE Ligne directrice 474 (Le test de micronoyaux sur les érythrocytes de mammifères)

OCDE Ligne directrice 471 (Essai de mutation réverse sur des bactéries)

Ames test (in vitro) :

Negative.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

No mutagenic effect.

META XYLENE DIAMINE (CAS: 1477-55-0)

No mutagenic effect.

**Carcinogenicity :**

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

BENZYL ALCOHOL (CAS: 100-51-6)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

Species : Mouse

OCDE Ligne directrice 453 (Études combinées de toxicité chronique et de cancérogénèse)

**Reproductive toxicant :**

SILICON DIOXIDE (CAS: 7631-86-9)

No toxic effect for reproduction

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

No toxic effect for reproduction

META XYLENE DIAMINE (CAS: 1477-55-0)

No toxic effect for reproduction

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Study on development :

Species : Rat

OCDE Ligne directrice 421 (Essai de dépistage de la toxicité pour la reproduction et le développement)

#### Specific target organ systemic toxicity - repeated exposure :

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Dermal route :

C > 160 mg/kg poids corporel/jour

Duration of exposure : 90 jours

OCDE Ligne directrice 411 (Toxicité cutanée subchronique: 90 jours)

META XYLENE DIAMINE (CAS: 1477-55-0)

Oral route :

C = 600 mg/kg poids corporel/jour

Species : Rat

Duration of exposure : 28 jours

OCDE Ligne directrice 407 (Toxicité orale à doses répétées - pendant 28 jours sur les rongeurs)

BENZYL ALCOHOL (CAS: 100-51-6)

Oral route :

C = 400 mg/kg poids corporel/jour

Species : Rat

Duration of exposure : 90 jours

#### 11.1.2. Mixture

No toxicological data available for the mixture.

## SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

### 12.1. Toxicity

#### 12.1.1. Substances

META XYLENE DIAMINE (CAS: 1477-55-0)

Crustacean toxicity :

EC50 mg/l

Species : Daphnia magna

Duration of exposure : 21 jours

OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

NOEC = 4.7 mg/l

Species : Daphnia magna

Duration of exposure : 21 jours

OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :

NOEC = 10.5 mg/l

Species : Pseudokirchnerella subcapitata

Duration of exposure : 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Fish toxicity :

LC50 = 130 mg/l

Species : Leuciscus idus

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 65.4 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity :

ECr50 = 58.4 mg/l

Species : Pseudokirchnerella subcapitata

Duration of exposure : 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 14.4 mg/l

Species : *Pseudokirchnerella subcapitata*

Duration of exposure : 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Fish toxicity :

LC50 = 175 mg/l

Species : *Cyprinus carpio*

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 718 mg/l

Species : *Palaemonetes vulgaris*

Duration of exposure : 96 h

Algae toxicity :

ECr50 = 84 mg/l

Species : *Scenedesmus subspicatus*

Duration of exposure : 72 h

4-MORPHOLINECARBALDEHYDE (CAS: 4394-85-8)

Fish toxicity :

LC50 > 500 mg/l

Species : *Leuciscus idus*

Duration of exposure : 96 h

Autres lignes directrices

Crustacean toxicity :

EC50 > 500 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

Algae toxicity :

ECr50 = 23880 mg/l

Species : *Scenedesmus subspicatus*

Duration of exposure : 72 h

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Fish toxicity :

LC50 = 110 mg/l

Species : *Leuciscus idus*

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 23 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

NOEC = 3 mg/l

Species : *Daphnia magna*

Duration of exposure : 21 jours

OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

Algae toxicity :

ECr50 > 50 mg/l

Species : *Desmodesmus subspicatus*

Duration of exposure : 72 h

NOEC = 1.5 mg/l

Species : *Desmodesmus subspicatus*

Duration of exposure : 72 h

Autres lignes directrices

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Fish toxicity :

LC50 > 100 mg/l

Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 13 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h  
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

Algae toxicity : ECr50 = 4.4 mg/l  
Species : *Selenastrum capricornutum*  
Duration of exposure : 72 h  
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Fish toxicity : LC50 = 63 mg/l  
Species : *Poecilia reticulata*  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 15.4 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h

PHENOL, STYRENATED (CAS: 61788-44-1)

Fish toxicity : LC50 = 14.8 mg/l  
Duration of exposure : 96 h  
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 ≤ 10 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h  
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

NOEC = 0.115 mg/l  
Duration of exposure : 21 jours  
OCDE Ligne directrice 211 (*Daphnia magna*, essai de reproduction)

Algae toxicity : ECr50 = 3.14 mg/l  
Duration of exposure : 72 h  
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

SALICYLIC ACID (CAS: 69-72-7)

Fish toxicity : LC50 = 1380 mg/l  
Species : *Pimephales promelas*  
Duration of exposure : 96 h  
Autres lignes directrices

Crustacean toxicity : EC50 = 230 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 24 h  
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

NOEC = 10 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 21 jours

Algae toxicity : ECr50 > 100 mg/l  
Species : *Desmodesmus subspicatus*  
Duration of exposure : 72 h

SILICON DIOXIDE (CAS: 7631-86-9)

Fish toxicity : LC50 > 10000 mg/l  
Species : *Brachydanio rerio*  
Duration of exposure : 96 h  
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 > 1000 mg/l  
Species : *Daphnia magna*

Duration of exposure : 24 h  
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

BENZYL ALCOHOL (CAS: 100-51-6)

Fish toxicity :

LC50 = 460 mg/l  
Species : Pimephales promelas  
Duration of exposure : 96 h  
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :

EC50 = 230 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h  
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)  
  
NOEC = 51 mg/l  
Species : Daphnia magna  
Duration of exposure : 21 jours  
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :

ECr50 = 770 mg/l  
Duration of exposure : 72 h  
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)  
  
NOEC = 310 mg/l  
Duration of exposure : 72 h  
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

#### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

#### 12.2. Persistence and degradability

##### 12.2.1. Substances

PHENOL, STYRENATED (CAS: 61788-44-1)

Biodegradability : Non-rapidly degradable.

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

SALICYLIC ACID (CAS: 69-72-7)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

SILICON DIOXIDE (CAS: 7631-86-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

4-MORPHOLINECARBALDEHYDE (CAS: 4394-85-8)

Biodegradability : Rapidly degradable.

META XYLENE DIAMINE (CAS: 1477-55-0)

Biodegradability : Non-rapidly degradable.

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Biodegradability : Non-rapidly degradable.

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

BENZYL ALCOHOL (CAS: 100-51-6)

Biodegradability : Rapidly degradable.

**12.3. Bioaccumulative potential****12.3.1. Substances**

4-MORPHOLINECARBALDEHYDE (CAS: 4394-85-8)

Bioaccumulation : BCF < 1.9  
Species : Cyprinus carpio (Fish)  
OCDE Ligne directrice 305 (Bioconcentration: Essai dynamique chez le poisson)

PHENOL, STYRENATED (CAS: 61788-44-1)

Octanol/water partition coefficient : log K<sub>ow</sub> ≤ 5.8  
OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)Bioaccumulation : BCF ≤ 190  
OCDE Ligne directrice 305 (Bioconcentration: Essai dynamique chez le poisson)

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = 0.783  
OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)

SALICYLIC ACID (CAS: 69-72-7)

Octanol/water partition coefficient : log K<sub>ow</sub> = 2.25

META XYLENE DIAMINE (CAS: 1477-55-0)

Octanol/water partition coefficient : log K<sub>ow</sub> = 0.18  
OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Octanol/water partition coefficient : log K<sub>ow</sub> = 0.99  
OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Octanol/water partition coefficient : log K<sub>ow</sub> = -1.13

BENZYL ALCOHOL (CAS: 100-51-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = 1.1**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 2 : Hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :**

07 01 08 \* other still bottoms and reaction residues

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

3259

**14.2. UN proper shipping name**

UN3259=AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.

(copolymer of benzenamine and formaldehyde, hydrogenated, propylidynetrimethanol, propoxylated, reaction products with ammonia)

**14.3. Transport hazard class(es)**

- Classification :



8

**14.4. Packing group**

III

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

| ADR/RID | Class | Code    | Pack gr. | Label    | Ident.   | LQ      | Provis. | EQ      | Cat. | Tunnel |
|---------|-------|---------|----------|----------|----------|---------|---------|---------|------|--------|
|         | 8     | C8      | III      | 8        | 80       | 5 kg    | 274     | E1      | 3    | E      |
| IMDG    | Class | 2°Label | Pack gr. | LQ       | EMS      | Provis. | EQ      |         |      |        |
|         | 8     | -       | III      | 5 kg     | F-A,S-B  | 223 274 | E1      |         |      |        |
| IATA    | Class | 2°Label | Pack gr. | Passager | Passager | Cargo   | Cargo   | note    | EQ   |        |
|         | 8     | -       | III      | 860      | 25 kg    | 864     | 100 kg  | A3 A803 | E1   |        |
|         | 8     | -       | III      | Y845     | 5 kg     | -       | -       | A3 A803 | E1   |        |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

**SECTION 15 : REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/669 (ATP 11)

**- Container information:**

No data available.

**- Particular provisions :**

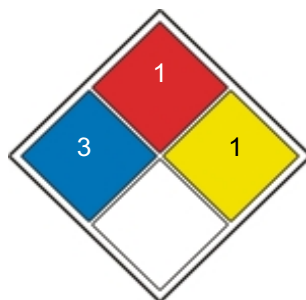
No data available.

**- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 2 : Hazardous for water.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

|      |                                                                     |
|------|---------------------------------------------------------------------|
| H302 | Harmful if swallowed.                                               |
| H312 | Harmful in contact with skin.                                       |
| H314 | Causes severe skin burns and eye damage.                            |
| H315 | Causes skin irritation.                                             |
| H317 | May cause an allergic skin reaction.                                |
| H318 | Causes serious eye damage.                                          |
| H319 | Causes serious eye irritation.                                      |
| H332 | Harmful if inhaled.                                                 |
| H373 | May cause damage to organs through prolonged or repeated exposure . |
| H411 | Toxic to aquatic life with long lasting effects.                    |
| H412 | Harmful to aquatic life with long lasting effects.                  |

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS07 : Exclamation mark

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.